SEP 2 3 2004 32 32

PTO/SB/51 (06-03)
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REISSUE APPLICATION DECLARATION BY THE INVENTOR

Docket Number (Optional) 2751.**3**000

I hereby declare that: Each inventor's residence, mailing address and citizenship are stated below next to their name. I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number
is attached hereto.
was filed on July 10, 2003 as reissue application number 10/616,797
and was amended onJuly_10, 2003 (If applicable)
I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/2B (or equivalent) listing the foreign applications.
I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)
by reason of a defective specification or drawing.
by reason of the patentee claiming more or less than he had the right to claim in the patent.
by reason of other errors.
At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:
Patentee was entitled to claim apparatuses useful in the patented methods. Thus, patentee claimed less than he had the right to claim. As such, this broadening reissue claims such apparatuses.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Docket Number (Ontional)

(REISSUE APPLICATI	EISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2) 2751.3000						
inventor, I hereby appo	this reissue application arose without ar bint the following attorney(s) and/or agent nd Trademark Office connected therewith	t(s) to prosec		•	· ·	-	1
Name(s) Carolyn S Anne I. C	Registration Numb	er 7 6					
Correspondence Addre	ess: Direct all communications about the	application to	J .				
`			•				
Customer Number	Γ .						
OR							
X Firm or Individual Name	Elmore Craig, P.C.						
Address	209 Main Street						
Address							
City	Chelmsford	Sta	te	MA		Zip	01863
Country	USA	•					
Telephone	(978) 251-3509	(978) 251-3509 Fax (978) 251-3973					
and belief are believe statements and the like	all statements made herein of my own keed to be true; and further that these e so made are punishable by fine and im jeopardize the validity of the applicat	statements v prisonment, o	were or bot	made with the h, under 18 U.S	knowled S.C. 1001	lge tha , and th	t willful false at such willful
Full name of sole or fir Christophe	st inventor (given name, family name)						
Inventor's signature	27	Date M	ay	10,2004			
Residence		Citizenship	k	<u> </u>			
AS Highland Mailing Address	Circle, Wayland, MA 01778	Uni	Jed	States			
Full name of second jo Thomas P. (pint inventor (given name, family name)				<u> </u>		
Inventor's signature		Date			<u>.</u>		
Residence	Residence Citizenship						
Mailing Address		1				<u> </u>	
Full name of third joint Thomas A. I	inventor (given name, family name)			· · · · · · · · · · · · · · · · · · ·			
Inventor's signature		Date					
Residence		Citizenship)		***************************************	, • · · · · · · · · · · · · · · · · · ·	
Mailing Address							
Additional joint inventor	s or legal representative(s) are named on separately	numbered shee	ts form	s PTO/SB/02A or 0	2LR attache	d hereto.	· · · · · · · · · · · · · · · · · · ·

PTO/SB/02A (05-03) Approved for use through 04/30/2003. OMB 0651-0032

Country

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION

City

ADDITIONAL INVENTOR(S)
Supplemental Sheet

<i>BEOZ/110/11/011</i>				Page -	1 of1	
Name of Additional Joint Inventor, if any:		A petitio	n has been filed fo	r this unsigned in	ventor	
Given Name (first and middle (if any)	Family Name or Surname					
Kevin A.		Sparks				
Inventor's						
Signature				Date		
Residence: City	State	С	ountry	Citizenship		
Mailing Address						
Mailing Address						
City	State		Zip	Country		
Name of Additional Joint Inventor, if any:		☐ A petitio	n has been filed fo	r this unsigned in	ventor	
. Given Name (first and middle (if any)			Family Name or Surname			
Inventor's Signature						
Residence: City	State		Country		Citizenship	
Mailing Address						
Mailing Address						
City	State		Zip	Country		
Name of Additional Joint Inventor, if any:		A petition	on has been filed fo	or this unsigned in	ventor	
Given Name (first and middle (if any)			Family Nan	ne or Surname		
Inventor's		Date				
Signature		-l				
Residence: City	State		Country		Citizenship	
Mailing Address	· ·			-	······································	
Mailing Address						

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

State

Zip

PTO/SB/51 (06-03)

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REISSUE APPLICATION DECLARATION BY THE INVENTOR

Docket Number (Optional) 2751.**a**000

I hereby declare that: Each inventor's residence, mailing address and citizenship are stated below next to their name. I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number6, 258, 988 B1 grantedJuly 10, 2001 and for which a reissue patent is sought on the invention entitled Method for Reforming Organics into Shorter Chain Unsaturated Organic Compounds the specification of which
is attached hereto.
was filed on July 10, 2003 as reissue application number 10/616,797
and was amended onJuly_10, 2003 (If applicable)
I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/2B (or equivalent) listing the foreign applications.
I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)
by reason of a defective specification or drawing.
by reason of the patentee daiming more or less than he had the right to daim in the patent.
by reason of other errors.
At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:
Patentee was entitled to claim apparatuses useful in the patented methods. Thus, patentee claimed less than he had the right to claim. As such, this broadening reissue claims such apparatuses.

[Page 1 of 2] This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MIPS

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(REISSUE APPLICATION	ON DECLARATION BY THE INVENTOR	l, page 2)		Docket Number (Optional) 2751.3000
inventor, I hereby appo	his reissue application arose without and int the following attorney(s) and/or agent and Trademark Office connected therewith	(s) to prosecute		
Name(s) Carolyn S Anne I. Ci	Registration Number 37,567 aig 32,976	er 7		
***************************************	· · · · · · · · · · · · · · · · · · ·			
Correspondence Addre	ss: Direct all communications about the a	application to:		
Customer Number				
OR				
X Firm or Individual Name	Elmore Craig, P.C.			
Address	209 Main Street			
Address				
City	Chelmsford	State	MA	Zip 01863
Country	USA			
Telephone	(978) 251-3509	Fax	(978) 2	51-3973
and belief are believe statements and the like false statements may declaration is directed. Full name of sole or first	Il statements made herein of my own kred to be true; and further that these se so made are punishable by fine and imperior jeopardize the validity of the application	statements wer prisonment, or t	re made with the coth, under 18 U	ne knowledge that willful false in .S.C. 1001, and that such willful
Christophe: Inventor's signature	r J. Nagel	Date		
Residence		Citizenship		
Mailing Address				
Full name of second jo Thomas P. C	int inventor (given name, family name)	<u> </u>		
Inventor's signature	$D \setminus X \cap A \cap$			
Residence Kennett To	ownship, PA (US)	Citizenship Unit	ed States	of America
Mailing Address / O Normandy	Prive Kennett Tou	unshio, P	A 1931	7
* · · · · · · · · · · · · · · · · · ·	inventor (given name, family name)			
Inventor's signature		Date		
Residence	<u> </u>	Citizenship		
Mailing Address	•	4		
Additional joint inventors	s or legal representative(s) are named on separately	numbered sheets f	orms PTO/SB/02A or	02LR attached hereto.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION		Supplemen	ital Sheet		1 of1
Name of Additional Joint Inventor, if any:		A pet	ition has been filed for	this unsigned inv	entor
Given Name (first and middle (if any)			e or Surname		
Kevin A.			S		
Inventor's Signature				Date	
Residence: City	State		Country	Citizenship	
Mailing Address					
Mailing Address					
City	State	<u></u>	Zip	Country	
Name of Additional Joint Inventor, if any:		□ А ре	tition has been filed fo	r this unsigned in	ventor
. Given Name (first and middle (if any)		Family Name or Surname			
Inventor's Signature					
Residence: City	State		Country	 	Citizenship
Mailing Address					
Mailing Address					
City	State		Zip	Country	
Name of Additional Joint Inventor, if any:		☐ A p∈	etition has been filed fo	or this unsigned in	entor
Given Name (first and middle (if any)	Given Name (first and middle (if any) Family Name or Surname				
Inventor's Signature		Date			
Residence: City	State	·	Country		Citizenship
Mailing Address		<u> </u>			
Mailing Address					
City	State	e	Zip	Countr	у

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TRANSMADY.

PTO/SB/51 (06-03)

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Docket Number (Optional)

REISSUE APPLICATION DECLARATION BY THE INVENTOR

2751.**a**000

I hereby declare that: Each inventor's residence, mailing address and citizenship are stated below next to their name. I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number				
the specification of which				
is attached hereto.				
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and was amended onJuly 10, 2003 (If applicable)				
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[Page 1 of 2]				

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				Trademark Office;	U.S. DEPAR	/31/2004. RTMENT	
Under the Paperwork R	eduction Act of 1995, no persons are required to res	spond to a co	ollection of i	nformation unless	Docket N	lumber	(Optional)
(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2) 2751.3000)		
inventor, I hereby appo	his reissue application arose without an int the following attorney(s) and/or agent and Trademark Office connected therewith	t(s) to pro	ive intent secute th	ion on the parties is application a	t of the ap and transa	plicant act all b	. As a named usiness in the
Name(s) Carolyn S	Registration Number 37, 567	er 7					
	caig 32,976	6	· · · · · · · · · · · · · · · · · · ·				,,,
Correspondence Addre	ss: Direct all communications about the	application	on to:			*** -	
Customer Number		<u> </u>					
OR							
		····			<u> </u>		
X Firm or Individual Name	Elmore Craig, P.C.	•••			<u>-</u>		
Address	209 Main Street					-	
Address					±.±		
City	Chelmsford		State	MA	•	Zip	01863
Country	USA					<u>.</u>	
Telephone	(978) 251-3509		Fax	(978) 2	51-397	73	
and belief are believed statements and the like false statements may declaration is directed. Full name of sole or first	Il statements made herein of my own kred to be true; and further that these so made are punishable by fine and imperoperdize the validity of the applications inventor (given name, family name)	statemen prisonme	its were int, or bot	made with th h, under 18 U.	e knowled S.C. 1001	dge tha , and th	at willful false nat such willful
Christophe: Inventor's signature	r J. Nagel	Date			· · · · · · · · · · · · · · · · · · ·		
Residence		Citizens	ship				
Mailing Address	· · · · · · · · · · · · · · · · · · ·]					
Full name of second jo	int inventor (given name, family name)				•	<u>-</u> .	<u> </u>
Inventor's signature		Date			.,,,		
Residence	<u> </u>	Citizen	ship	1			<u> </u>
Mailing Address		<u>i</u>				1994 - P. 1985	
Full name of third joint Thomas A. F	inventor (given name, family name)		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>		
Inventor's signature	<u></u>	Date					
Residence		Citizen	ship				
Mailing Address							
Additional joint inventors	s or legal representative(s) are named on separately	y numbered	sheets form	is PTO/SB/02A or	02LR attach	ed hereto	

PTO/SB/02A (05-03)

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet

Page -1--- of --1--

Name of Additional Joint Inventor, if any:		A petition I	nas been filed for this	unsigned inve	entor	
			e or Surname			
Kevin A.		Sparks				
Inventor's Signature 34 4 54				Date 6-	7-04	
Residence: City Scituate	State	MA Cou	ntry USA	Citizenship		
Mailing Address					<u> </u>	
Mailing Address 66 Gannett Rd.				<u> </u>		
city Scituate,	State	MA	Zip 02061	Country	USA	
Name of Additional Joint Inventor, if any:		A petition	has been filed for thi	s unsigned inv	entor	
. Given Name (first and middle (if any)			Family Name o	r Surname		
•			•			
Inventor's Signature						
Residence: City	State		Country		Citizenship	
Mailing Address						
Mailing Address						
City	State	9	Zip	Country		
Name of Additional Joint Inventor, if any:				is unsigned in	ventor	
Trainic of Francisco and and all the street, it will be		A petition	has been filed for th	is ansigned in		
Given Name (first and middle (if any)		A petition	has been filed for the Family Name o			
		A petition				
		Date A petition				
Given Name (first and middle (if any) Inventor's	Stat	Date			Citizenship	
Given Name (first and middle (if any) Inventor's Signature	Stat	Date	Family Name o			
Given Name (first and middle (if any) Inventor's Signature Residence: City	Stat	Date	Family Name o			

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Signature

Christopher J. Nagel

PTO/SB/53 (05-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

rwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Docket Number (Optional) REISSUE APPLICATION: CONSENT OF ASSIGNEE; 2751.2000 US (formerly STATEMENT OF NON-ASSIGNMENT 2751 30001 This is part of the application for a reissue patent based on the original patent identified below. Name of Patentee(s) Christopher J. Nagel, Thomas P. Griffin, Thomas A. Kinney, and Kevin A. Sparks **Date Patent Issued** Patent Number 6,258,988 B1 July 10, 2001 Title of Invention Method for Reforming Organics into Shorter-Chain Unsaturated Organic Compounds Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96) Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect. One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee". The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue. The assignee(s) owning an undivided interest in said original patent is/are __100% and the assignee(s) consents to the accompanying application for reissue. Name of assignee/inventor (if not assigned)

This collection of information is required by 37 CFR 1.172. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Typed or printed name and title of person signing for assignee (if assigned)

VP, Product Development and Founding Scientist

Date

May

10,2004



STATEMENT UNDER 37 C.F.R. ' 3.73(b)

Applica	ants:	Christopher J. Nagel, Thomas P. Griffin, Thomas A. Kinney, and Kevin A. Sparks
Applica	ation No.:	10/616,797 Filed: July 10, 2003
	Quantui	m Catalytics, LL.C. , a corporation
states th	nat it is	
A.	[X]	the assignee of the entire right, title and interest in the patent application identified above; or
В.	[]	an assignee together with [] of the entire right, title and interest in the patent application identified above.
The right	ht, title ar	nd interest of the above-named assignee in the patent application identified above is established by virtue of:
A. [X]	•	gnment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent demark Office at Reel6894, Frame0296-0300_, or a copy thereof is attached.
OR		
B.[]	A chain	of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:
	1.	From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or a copy thereof is attached.
	2.	From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or a copy thereof is attached.
	3.	From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or a copy thereof is attached.
	[] Ad	ditional documents in the chain of title are listed on a supplemental sheet.
The unc	dersigned	(whose title is supplied below) is authorized to act on behalf of the assignee.
Date:	May	P006, 0
Name:_	Chris	stopher J. Nagel
Title:	VP, F	Product Development and Founding Scientist
G '	1	